

LYON COUNTY**ORDINANCE NO. 2015-01****AN ORDINANCE TO ESTABLISH A POLICY FOR THE CONSTRUCTION AND RECONSTRUCTION OF ROADWAYS AND BRIDGES ON THE LYON COUNTY SECONDARY ROAD SYSTEM.****BE IT ORDAINED BY THE BOARD OF SUPERVISORS LYON COUNTY:****SECTION 1 -- PURPOSE**

The purpose of this ordinance is to establish Lyon County's policy for the construction of roads, reconstruction of roads, construction of bridges, reconstruction of bridges and other roadway and drainage features associated with road and bridge construction.

SECTION 2 -- LEVEL OF SERVICE

The level of service shall be based on traffic counts, pavement type, roadway geometrics and other data used in accepted engineering design as established by the County Engineer, Iowa Department of Transportation and the Federal Highway Administration.

SECTION 3 -- DESIGN CRITERIA

In implementation, this policy shall set the minimum design standards that Lyon County will follow in the construction or reconstruction of roads and bridges. These criteria shall be based on accepted engineering practices and standards established by the Iowa Department of Transportation and the Federal Highway Administration.

The County Engineer shall assure the minimum design standards established herein are adhered to in a uniform manner unless, in his or her professional judgment, a deviation from standards is warranted. Minimum design standards are not subject to discretionary enforcement. Any deviations must be documented as unreasonable and or impossible to implement by the County Engineer and/or the County Board of Supervisors.

PAVED ROUTES

1. New Pavement and Reconstruction of Pavement
 - a. New pavement shall be constructed with a 24' wide pavement and granular shoulders.
 - b. Rumble strips shall be installed on all approach stop situations.
 - c. Concrete pavement will be the first choice for pavement provided clear zone and shoulder widths can be maintained by design requirements.

UNPAVED ROADS

1. Gravel Roads
 - a. New construction of a gravel road shall have a 28' finished top, including shoulders.
 - b. Reconstruction of a gravel road shall be to the previous width prior to reconstruction.
2. Dirt Roads
 - a. New construction may be built to minimums as outlined by Iowa Code.
 - b. Reconstruction of a dirt road shall be to the previous width prior to reconstruction.

BRIDGES and DRAINAGE STRUCTURES

1. Paved and Unpaved Routes
 - a. Bridges shall be built with a minimum width of 30'. Wider structures will be installed when there are issues relating to oversized vehicles, pedestrian facilities, biking usage or other issues where the additional width is warranted.
 - b. Bridges shall be made primarily of concrete.
 - c. Pipe culverts larger than 54" in diameter will be substituted with reinforced box culverts.
 - d. Box Culverts with a history of erosion will have a curtain wall placed at the inlet and/or outlet ends. Rip rap will be placed at these locations.
 - e. Design for drainage structures will be governed by accepted hydraulic design standards. Input from IDNR, Corp of Engineers, Iowa DOT, NRCS, or USGS may impact the size and type of the structure to be placed.
 - f. Water and livestock will use separate structures whenever possible.
 - g. Bridges shall use steel piling for replacement piling at locations where timber piling will not be long enough to be below the scour depth.
2. Dirt Routes
 - a. May be built to the minimums as outlined by Iowa Code.
3. Entrance Bridges
 - a. Any and all bridges/drainage structures that are fully or partially in the road right-of-way that serve as entrances to private property from the public roadway shall be considered the jurisdiction and responsibility of the County. If a structure does not sit fully or partially in the road right-of-way it will be considered a private structure and not under the jurisdiction of the county.

BRIDGE ABUTMENTS and CULVERT INLET/OUTLET MATERIAL

1. New Construction and Reconstruction
 - a. Bridges shall use rip rap to protect underlying earth abutments within the entire County right-of-way.
 - b. Box culverts 40 square foot and larger shall use rip rap on the inlet and outlet ends with the exception when it hinders agricultural practices.
 - c. Box culverts smaller 40 square foot may use rip rap on the inlet and outlet ends where repeated erosion has occurred.
 - d. All concrete culverts will have apron sections on the inlet and outlet ends.
2. Repetitive Erosion of Bridge Abutments
 - a. At structure locations where erosion of soil or rip rap has happened repeatedly or extensively, use concrete grout for rip rap or articulated concrete block mats or similar methodology.

SECTION 4 -- REPEALER

All ordinances and resolutions, or parts thereof, in conflict herewith are hereby repealed.

SECTION 5 -- SEVERABILITY CLAUSE

If any section, provision, or part of this ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the ordinance as a whole or any section, provision, or part thereof not adjudged invalid or unconstitutional.

SECTION 6 -- WHEN EFFECTIVE

This ordinance shall be in effect immediately after its final passage and publication as provided by law. In addition, this ordinance shall remain in effect until such time the Board of Supervisors passes a future ordinance repealing this ordinance.

Passed and approved this 21 day of September, 2015.

Lyon County Board of Supervisors

Randy Bosch
Randy Bosch - Chairman

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Mark Behrens
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ATTEST:

Jennifer Smit
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Lyon County Auditor

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Second Reading: 9.21.15

Approved: 9.21.15

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